



Use of Socioeconomic Indicators for Environmental Justice Analysis

***Governor's Commission on Environmental
Justice and Sustainable Communities
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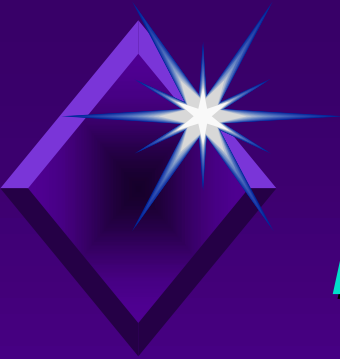
Maryland Department of Planning



Defining Subpopulations

Title VI of the Civil Rights Act and Related Regulations

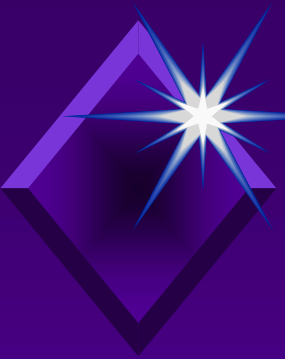
- ◆ **Race**
- ◆ **Color**
- ◆ **National origin**
- ◆ **Religion**
- ◆ **Sex**
- ◆ **Age**
- ◆ **Disability**



Defining Subpopulations

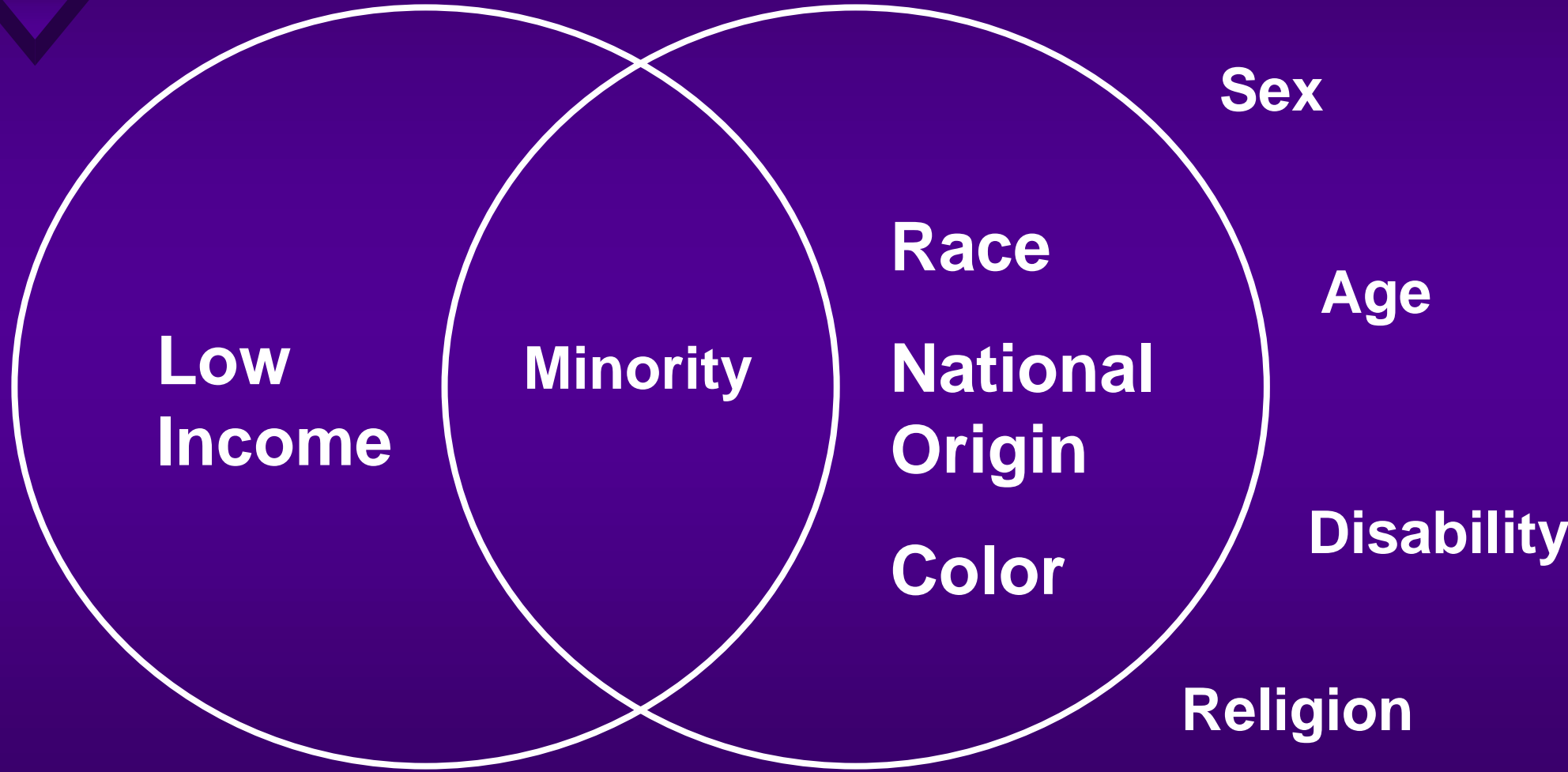
Executive Order 12898

- ◆ **Minority**
- ◆ **Low-income**



EJ E.O.

Title VI



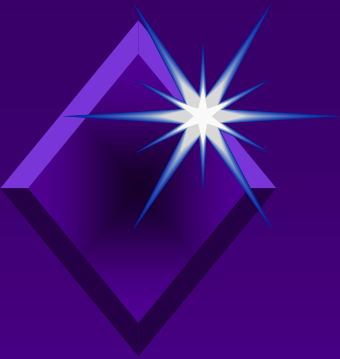


Race/ethnicity

Race

- ◆ American Indian and Alaska Native
- ◆ Asian
- ◆ Black or African American
- ◆ Native Hawaiian and other Pacific Islander
- ◆ White
- ◆ Other

- ◆ Ethnicity: Hispanic or Latino
- ◆ Definition Changes over Time
- ◆ Net Undercounting
- ◆ Comparison Benchmark



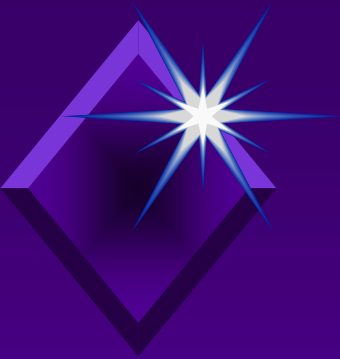
Benchmark

Identify minority population (CEQ)

- ◆ **50 Percent**
- ◆ **“Meaningfully Greater” than that in the general population, e.g. 10% vs. 5%, 45% vs. 40%, 95% vs. 90%**

“Statistically different”

- ◆ **Sample percentage vs. expected percentage**
- ◆ **Standard deviations**



Benchmark

General population?

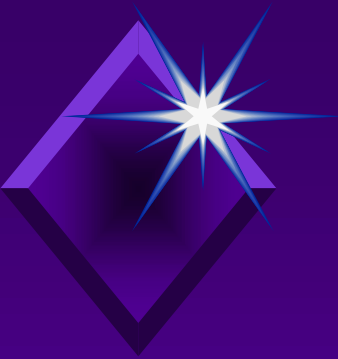
- ◆ Nation
- ◆ State
- ◆ City/County
- ◆ Township

Affected target population?

- ◆ Subpopulations that *use* a service such as transit ridership
- ◆ Subpopulations that are *eligible* for a service

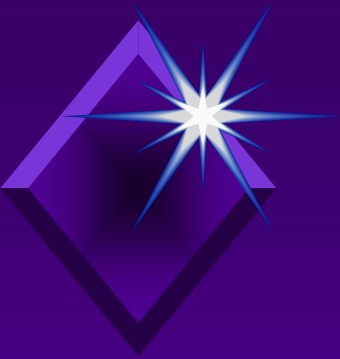
General Population (Census 2000)

	US	Maryland	Baltimore PMSA	Baltimore City
African American	12.9	28.8	28.1	65.2
American Indian	1.5	0.7	0.7	0.8
Asian	4.2	4.5	3.1	1.8
Native Hawaiian	0.3	0.1	0.1	0.1
Other	6.6	2.5	1.2	1.2
Hispanic or Latino	12.5	4.3	2.0	1.7
Minority	30.9	37.9	33.7	69.0



Income

- ◆ **Poverty**
- ◆ **Household income (Median, Mean, Distribution)**
- ◆ **Family income**
- ◆ **Per capita income**
- ◆ **% households receiving public assistance**
- ◆ **Household Effective Buying Income**



Poverty

Poverty Thresholds (Bureau of the Census)

- ◆ **statistical purposes**
- ◆ **1961 economic food plan, 1969, 1980,**
- ◆ **family size, number of children, age of the family householder**
- ◆ **CPI adjustment but no regional, spending pattern adjustment**



Poverty

Poverty Guidelines (DHHS)

- ◆ **administrative purposes**
- ◆ **used for determining eligibility for federal programs such as Food Stamp, School Lunch, Home Energy Assistance**
- ◆ **simplified version of poverty thresholds**
- ◆ **released annually**



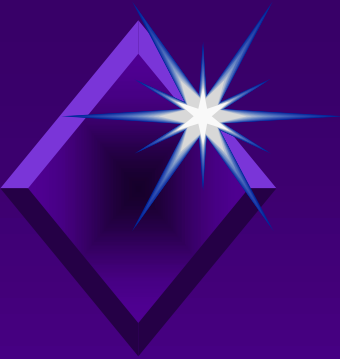
Poverty

	Thresholds 1998	Guidelines 1999	Guidelines 2002
One	8,316	8,240	8,860
Two	10,634	11,060	11,940
Three	13,003	13,880	15,020
Four	16,660	16,700	18,100

<http://aspe.hhs.gov/poverty/poverty.htm>

Census 2000

	US	Maryland	Baltimore PMSA	Baltimore City
Poverty (Families)	9.2	6.1	7.1	18.8
Poverty (Individuals)	12.4	8.5	9.8	22.9
Median Household Income	41,994	52,868	49,938	30,078
Median Family Income	50,046	61,876	59,324	35,438
Per capita Income	21,587	25,614	24,398	16,978



Age

the young

- ◆ **% population under 5 years old**
- ◆ **% population under 15 years old**

the elderly

- ◆ **% population 65 years and over**

Median age

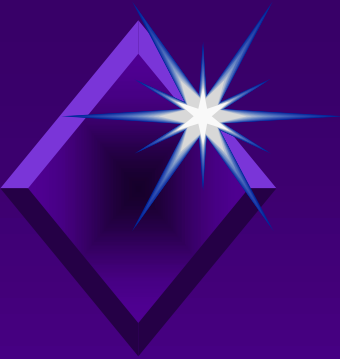


	US	Maryland	Baltimore PMSA	Baltimore City
Under 5 Years	6.8	6.7	6.5	6.4
65 Years and Over	12.4	11.3	12.0	13.2
Median Age	35.3	36.0	36.3	35.0



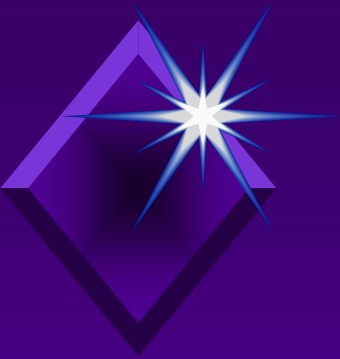
Housing

- ◆ Median value of owner-occupied housing units
- ◆ Median rent
- ◆ Mean age of housing units
- ◆ % housing units built before 1950 (as an indicator for lead paint)
- ◆ % housing units vacant
- ◆ % housing units occupied by owners
- ◆ % housing units occupied by renters
- ◆ % household income spent on housing cost



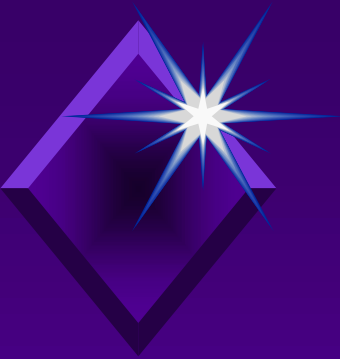
Education

- ◆ % population with 12 or more years of schooling
- ◆ % adults with 4 years of college



Employment

- ◆ % employed in manufacturing
- ◆ % employed in farming
- ◆ % labor force unemployed



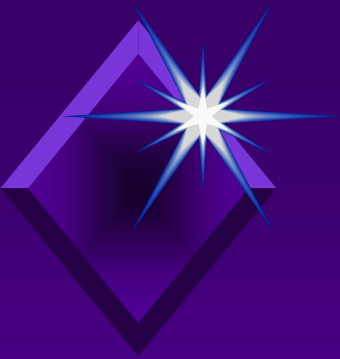
Transportation

- ◆ **% households without any vehicle available**
- ◆ **accessibility**
 - ◆ **index—derived from transportation models**
 - ◆ **number of jobs accessible within 30 or 45 minutes**



Other

- ◆ **% family households with female householder (proxy for poverty)**
- ◆ **Persons with a self-care or mobility limitation (proxy for disability)**



Data Sources

- ◆ **Bureau of the Census**
 - ◆ **Census**
 - ◆ **CTPP**
 - ◆ **PUMS**
 - ◆ **ACS**
- ◆ **DHHS**
 - ◆ **poverty guidelines**



Non-Census Data Sources

- ◆ **Schools and school districts (low-income lunch programs)**
- ◆ **Family and children services (data about low-income and race)**
- ◆ **State labor agencies (ES 202)**
- ◆ **Private vendors**
- ◆ **Metropolitan Planning Organizations**